



P/N: 7318

DRAWN BY: B. DELORENZO

DATE: 10-11-2018

REVISED BY:

DATE:

DESCRIPTION: POWER DISTRIBUTION ASSEMBLY
C18 HHP 24V

NOTES:

COLOR KEY

RED	POSITIVE
BLACK	GROUND
GREEN	INPUT
BLUE	OUTPUT
LT. BLUE	CAN-BUS/J-1939

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ALL GROUNDS MUST GO TO BATTERY GROUND
ALL POSITIVES MUST GO TO BATTERY POSITIVE

#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	SWITCH INPUT RETURN	TO 12 SOCKET CONNECTOR 'C' - #6
2	SWITCH INPUT RETURN	TO 70 SOCKET - #66
PN	SWITCH INPUT RETURN	PIN JUMPER - POSITION #1 TO POSITION #2

OK TO ELEVATE
START

#	DESCRIPTION	TERMINATION/CONNECTION POINT
3	ANALOG SENSOR RETURN	TO ANALOG SENSOR RETURN SPLICE
4	DIGITAL SENSOR POWER (+5V)	TO 3 SOCKET (COOLANT LEVEL SENSOR) - A
6	CONSTANT VOLTAGE CEM	TO 12 SOCKET 'C' CONNECTOR - #5
8	CAT DATA LINK (+)	TO CAT DATA LINK SPLICE
9	CAT DATA LINK (-)	TO CAT DATA LINK SPLICE
12	AUTO ETHER AID	TO 2 SOCKET (AUTO ETHER) - #1
17	AIR TEMP	TO 2 POSITION TYCO (AIR TEMP) - #1
18	SWITCH INPUT RETURN	TO 12 SOCKET 'C' CONNECTOR - #6
19	CONSTANT VOLTAGE CEM	TO 12 SOCKET 'C' CONNECTOR - #5
26	WAIT TO DISCONNECT LAMP (+)	TO 2 SOCKET (WAIT TO DISCONNECT) - #1
27	BATTERY (-) - GROUND	TO GROUND BATTERY CABLE SPLICE
32	BATTERY (-) - GROUND	TO GROUND BATTERY CABLE SPLICE
33	CONSTANT VOLTAGE CEM	TO 12 SOCKET 'C' CONNECTOR - #4
37	FUEL RELAY - COIL (+)	TO 12 SOCKET 'D' CONNECTOR - #3
38	FUEL RELAY - (GROUND)	TO 12 SOCKET 'D' CONNECTOR - #4
39	FUEL RELAY - N/O	TO 12 SOCKET 'D' CONNECTOR - #1
42	J1939 DATA LINK SHIELD	TO J1939 SPLICE
43	J1939 DATA LINK (+)	TO J1939 SPLICE
44	CONSTANT VOLTAGE CEM	TO 12 SOCKET 'C' CONNECTOR - #4
44	REMOTE SHUTDOWN SWITCH	TO 12 SOCKET 'C' CONNECTOR - #5
46	SWITCH INPUT RETURN	TO 2 SOCKET (OTES) - #2
48	BATTERY (+) - CONSTANT VOLTAGE	TO 12 SOCKET 'C' CONNECTOR - #1
49	COOLANT LEVEL SENSOR	TO 3 SOCKET (COOLANT LEVEL SENSOR) - C
51	WAIT TO DISCONNECT LAMP (-)	TO 2 SOCKET (WAIT TO DISCONNECT) - #2
52	BATTERY (+) - CONSTANT VOLTAGE	TO 12 SOCKET 'C' CONNECTOR - #2
53	BATTERY (+) - CONSTANT VOLTAGE	TO 12 SOCKET 'C' CONNECTOR - #2
55	BATTERY (+) - CONSTANT VOLTAGE	TO 12 SOCKET 'C' CONNECTOR - #3
57	CEM	TO 12 SOCKET 'C' CONNECTOR - #7
61	BATTERY (-) - GROUND	TO GROUND BATTERY CABLE SPLICE
63	BATTERY (-) - GROUND	TO GROUND BATTERY CABLE SPLICE
65	BATTERY (-) - GROUND	TO GROUND BATTERY CABLE SPLICE
67	BATTERY (-) - GROUND	TO GROUND BATTERY CABLE SPLICE
69	BATTERY (-) - GROUND	TO GROUND BATTERY CABLE SPLICE
70	SWITCHED VOLTAGE	TO 12 SOCKET 'B' CONNECTOR - #1
	SWITCHED VOLTAGE	TO DATA LINK 9 PIN - A

TO POWER
DISTRIBUTION
MODULE

#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	AIR TEMP	TO 70 SOCKET CONNECTOR - #17
2	AIR TEMP	TO ANALOG SENSOR RETURN SPLICE

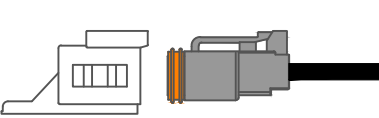
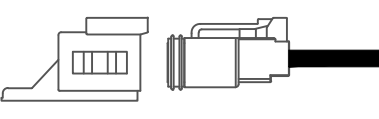
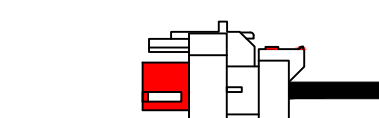
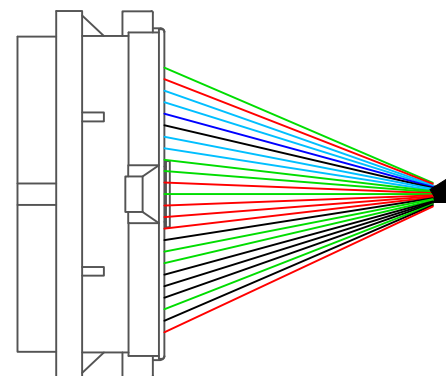
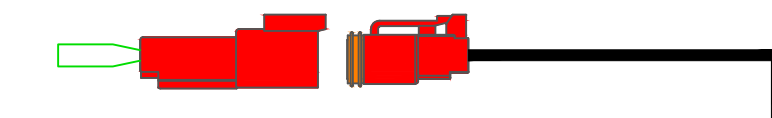
AIR TEMP

#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	AUTO ETHER AID	TO 70 SOCKET CONNECTOR - #12
2	AUTO ETHER AID	TO 12 SOCKET 'C' CONNECTOR - #6

AUTO ETHER AID

#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	WAIT TO DISCONNECT LAMP (+)	TO 70 SOCKET CONNECTOR - #26
2	WAIT TO DISCONNECT LAMP (-)	TO 70 SOCKET CONNECTOR - #51

WAIT TO
DISCONNECT



#	DESCRIPTION	TERMINATION/CONNECTION POINT
A	ANALOG SENSOR POWER (+5V)	TO 70 SOCKET CONNECTOR - #4
B	ANALOG SENSOR RETURN	TO ANALOG SENSOR RETURN SPLICE
C	COOLANT LEVEL SENSOR	TO 70 SOCKET CONNECTOR - #49

FUEL PRIME

#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	CONSTANT VOLTAGE	TO 12 SOCKET 'B' CONNECTOR - B11
2	GROUND	TO GROUND BATTERY CABLE SPLICE

START
SOLENOID

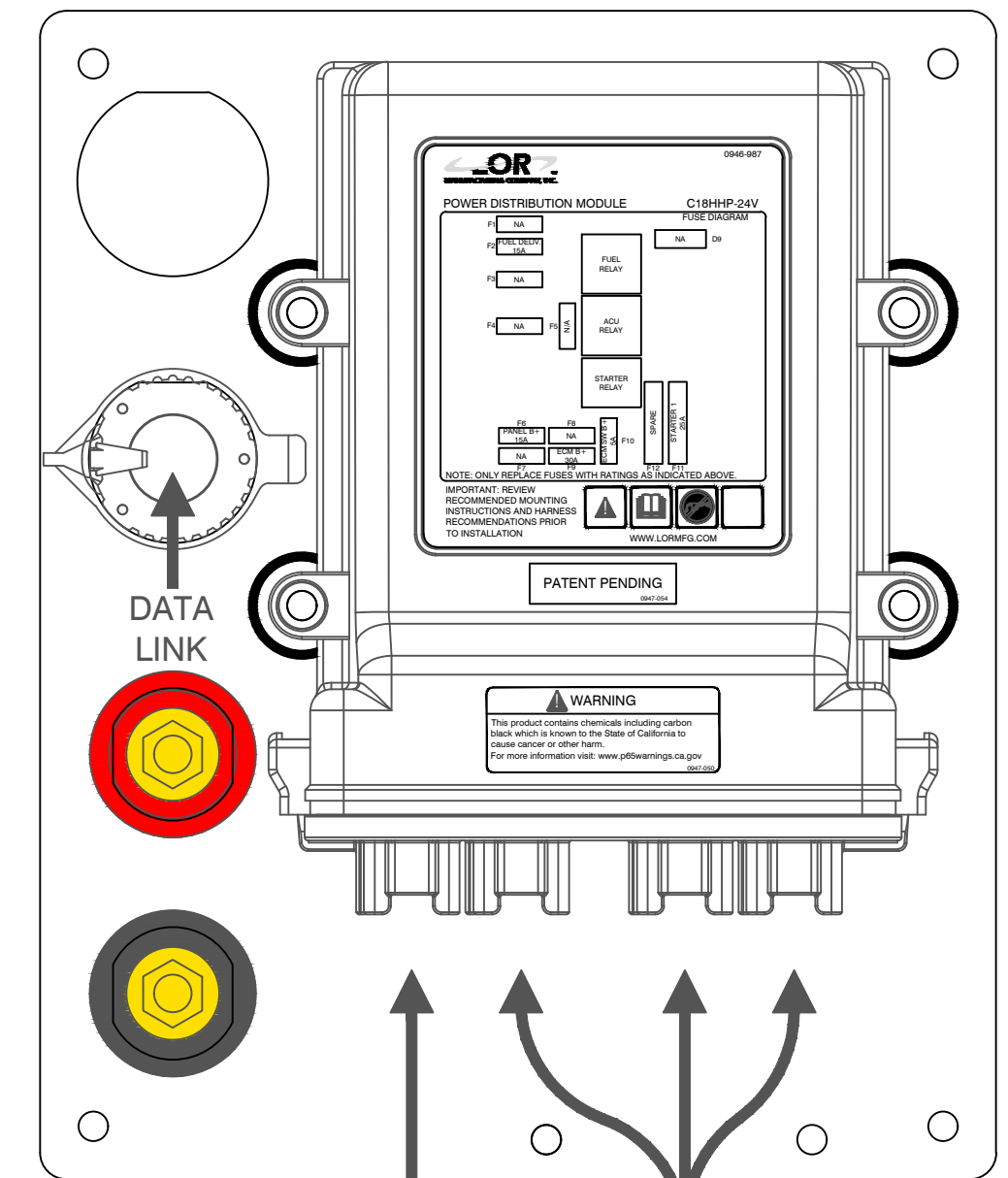
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	START SOLENOID - GROUND	TO GROUND BATTERY CABLE SPLICE
2	START SOLENOID - N/O	TO 12 SOCKET 'D' CONNECTOR - #11

STARTER SOLENOID RING TERMINAL

#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	START SOLENOID - SUPPLY	TO 6 GA. BATTERY (+) SPLICE

#	DESCRIPTION
1	REMOTE ENGINE SHUTDOWN
2	SW. COMMON FROM ECM
3	START SOLENOID
4	EXTERNAL ALARM RELAY OUTPUT
5	CAT DATA LINK HIGH
6	CAT DATA LINK LOW
7	J1939 CAN HIGH
8	J1939 CAN LOW
9	CAN SHIELD
10	KEYSWITCH INPUT
11	CONSTANT VOLTAGE SUPPLY
12	GROUND

C18 HHP 24V POWER
DISTRIBUTION
MODULE



CUSTOMER
CONNECTOR
HARNESS
CONNECTORS

#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	CONSTANT VOLTAGE	TO 70 SOCKET CONNECTOR - #48
2	CONSTANT VOLTAGE	TO 70 SOCKET CONNECTOR - #52
3	CONSTANT VOLTAGE	TO 70 SOCKET CONNECTOR - #53
4	CONSTANT VOLTAGE CEM	TO 70 SOCKET CONNECTOR - #55
4	CONSTANT VOLTAGE CEM	TO 70 SOCKET CONNECTOR - #33
4	CONSTANT VOLTAGE CEM	TO 70 SOCKET CONNECTOR - #43
5	CONSTANT VOLTAGE CEM	TO 70 SOCKET CONNECTOR - #6
5	CONSTANT VOLTAGE CEM	TO 70 SOCKET CONNECTOR - #18
6	SWITCH INPUT RETURN	TO 70 SOCKET CONNECTOR - #18
6	SWITCH INPUT RETURN	TO 2 SOCKET (OTES) - #1
7	AUTO ETHER AID INPUT RETURN	TO 2 SOCKET AUTO ETHER AID - #2
7	CEM	TO 70 SOCKET CONNECTOR - #57
9	BATTERY (+)	TO GROUND BATTERY CABLE SPLICE
9	BATTERY (+)	TO 6 GA. BATTERY (+) SPLICE
10	BATTERY (+)	TO 6 GA. BATTERY (+) SPLICE
11	BATTERY (+)	TO 6 GA. BATTERY (+) SPLICE
12	BATTERY (+)	TO 6 GA. BATTERY (+) SPLICE

#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	FUEL RELAY - N/O	TO 70 SOCKET CONNECTOR - #39
3	FUEL RELAY - COIL (+)	TO 70 SOCKET CONNECTOR - #37
4	FUEL RELAY - GROUND	TO 70 SOCKET CONNECTOR - #38
5	REMOTE SHUTDOWN SWITCH	TO 70 SOCKET CONNECTOR - #44
6	CAN LOW	TO J1939 SPLICE - GREEN
7	CAN HIGH	TO J1939 SPLICE - YELLOW
8	J1939 SHIELD	TO J1939 SPLICE - SHIELD
11	START SOLENOID - N/O	TO START SOLENOID 2 SOCKET - #2

#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	IGNITION SWITCHED BATTERY INPUT	TO 70 SOCKET CONNECTOR - #70
5	CAT DATA LINK (+)	TO CAT DATA LINK SPLICE
6	CAT DATA LINK (-)	TO CAT DATA LINK SPLICE
11	CONSTANT VOLTAGE	TO FUEL PRIME CONNECTOR - #1

#	DESCRIPTION	TERMINATION/CONNECTION POINT
A	SWITCHED VOLTAGE	TO 70 SOCKET CONNECTOR - #70
B	GROUND	TO GROUND BATTERY CABLE SPLICE
C	J1939 SHIELD	TO J1939 SPLICE - SHIELD
C	J1939 (+)	TO J1939 SPLICE - YELLOW
F	J1939 (-)	TO J1939 SPLICE - GREEN
D	CAT DATA LINK (+)	TO CAT DATA LINK SPLICE
E	CAT DATA LINK (-)	TO CAT DATA LINK SPLICE

#	WIRE	GAUGE	DESCRIPTION	CUT LENGTH
[1]	BLACK	4 GA.	ALT GND CABLE - 5/16" TO 1/2" RING	36 IN.
[2]	RED	4 GA.	ALT POS CABLE - 5/16" TO 5/16" RING	15 IN.
[3]	RED	4 GA.	ALT POS CABLE - 5/16" TO 1/2" RING	55 IN.

